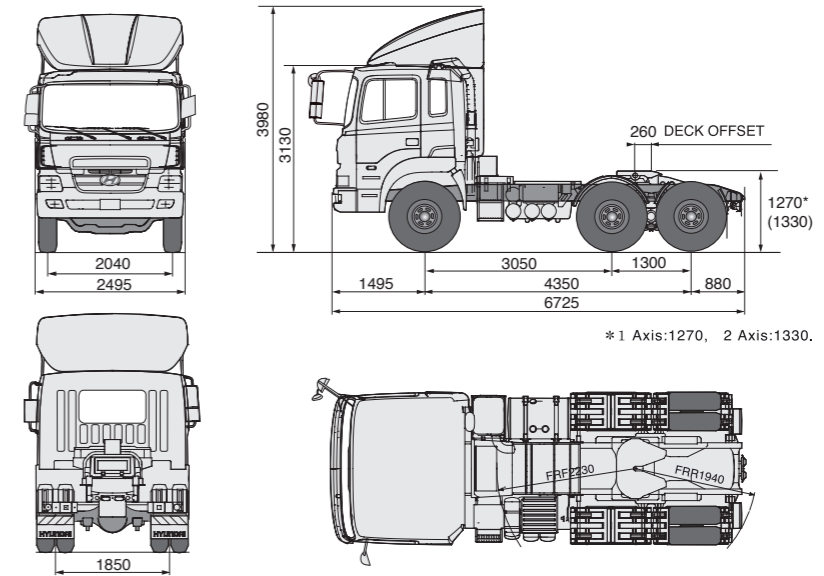


Hyundai Commercial Vehicle **SPECIFICATIONS**



HD1000 Tractor

HYUNDAI HD Series



Model	HD700	HD1000	
Vehicle Type		Tractor	
Cab Type		Sleeper Cab	
Deck Height		High	
Wheel Base		Short	
Drive System		LHD, 6 x 4	
Application Engines	D6AC	D6CA3H	D6CA41

Dimensions (mm)

Wheel Base		4,350 (3,050 + 1,300)
Overall	Length	6,685
	Width	2,495
	Height	3,130 (3,980 : with spoiler)
Wheel Tread	Front / Rear	2,040 / 1,850
Overhang	Front / Rear	1,495 / 840
Overhang (Frame)	Front / Rear	1,420 / 820
Fitting Radius Front (F.R.F)		2,230
Fitting Radius REAR (F.R.R)		1,940
Fifth Wheel Loading Capacity (kg)		20,000
Coupler	Type	1Axis (STD), 2 Axis (OPT)
	Capacity	16,500 (2"), 36,000 (3.5")
	King Pin Diameter	SAE 2" (STD), 3.5" (OPT)
	Ground Height	1,270 (1 Axis), 1,330 (2 Axis)
	Offset	260
Min. Ground Clearance		250
Min. Turning Radius	m	6.8

Weight (kg)

Tractor Weight		8,780	8,930
	Front / Rear	4,300 / 4,480	4,600 / 4,420
** Max Gross Vehicle Weight		31,700	
	Front / Rear	6,500 / 25,200	
Max. Gross Combination Weight		70,000	

** Max. GVW includes the front & rear axle loads based on the permissible tire load.

Calculated Performance

Model		HD700	HD1000	
Application Engines		D6AC	D6CA3H	D6CA41
Max. Speed	km/h	99	100	120
Max. Gradeability	tanθ	0.537	0.507	0.855
Min. Turning Radius	m	6.8		

Chassis Specifications

Engine

Engine		D6AC	D6CA3H	D6CA41
Type		Turbo Charger Intercooler 4 stroke-cycle, water-cooled, direct-injection diesel engine		
Number of Cylinder		6 in-line		
Piston Displacement (cc)		11,149	12,920	
Bore x Stroke (mm)		130 x 140	133 x 155	
Compression Ratio		16.5 : 1	17 : 1	
Max. Power** (ps/rpm)	Euro I	340 / 2,200	-	
	Euro II	320 / 2,000	380 / 1,900	410 / 1,900
Max. Torque ** (kg.m/rpm)	Euro I	140 / 1,400	-	
	Euro II	137 / 1,400	160 / 1,500	188 / 1,500
Cooling System	General	Pressure type with thermostat, Forced circulation by centrifugal water pump		
	Radiator	Corrugated fin type with pressure cap and condenser tank		
Electrical System	Battery	12V x 2, 150 AH at 20 Hr rates		
	Alternator	24V-60A	24V-80A	
	Starter	24V-5.5kW	24V-6.0kW	
Fuel System	Injection pump	In-line type	EUI system	
	Governor	All Speed type	Electronic Control	
	Fuel filter	Spin-on type		
Oil System	Lubrication	Forced lubrication by gear pump		
	Oil filter	Full flow and bypass type with paper element		
	Oil cooler	Water cooled, plate fin type		
	Oil grade	API service classification CF-4 or above		
Valve System		Single Overhead Valve, Two valves per cylinder		

** Max. Power and Torque of engine may vary according to each country.

Clutch

Engine		D6AC	D6CA3H	D6CA41
Type		Hydraulic control with Air pressure assistance, Diaphragm spring, Single dry plate, Pre-Damper		
Facing Material		Non-Asbestos		
Facing Size (mm) Outside dia x Inside dia		ø430 x ø242		

Transmission

Model		HD700	HD1000	
Application Engines		D6AC	D6CA3H	D6CA41
T/M Application ●: STD ○: OPT	M12S 2X5	●		
	H160S 2X5		●	
	ZF16S151			●
Model		M12S 2x5	H160S 2x5	ZF16S151
Type		10 forward and 2 reverse speed, 2nd to 10th synchromesh, 1st & reverse constant-mesh gears		16 forward and 2 reverse speed, 1st to 16th synchromesh, reverse constant-mesh gears
Gear Ratio	1st (High / Low)	9.153 / 7.145		13.80 / 11.54
	2nd (High / Low)	4.783 / 3.733		9.49 / 7.93
	3rd (High / Low)	2.765 / 2.158		6.53 / 5.46
	4th (High / Low)	1.666 / 1.301		4.57 / 3.82
	5th (High / Low)	1.000 / 0.780		3.02 / 2.53
	6th (High / Low)	-		2.08 / 1.74
	7th (High / Low)	-		1.43 / 1.20
	8th (High / Low)	-		1.00 / 0.84
Reverse	8,105 / 6,327		12.92 / 10.80	
Gear Oil	API service classification GL-4 or SAE service classification 80W (90 ;Tropical zones only)			
T.G.S. (Transmission Gear Shift)	Floor shift, Mechanical remote control			

Propellershaft

Model	S1810
Type	Tubular, Forged steel ends
Size (Tube diameter x Thickness)	ø114.3 x 6.6 t

Rear Axle

Model	D12HT	
Type	Full floating type	
Capacity	kg 13,000 x 2	
Final Reduction Gear	Type	Single Reduction, Hypoid gear
	G/Ratio	5.571 4.875 3.909 / 4.333
Gear Oil	SAE service classification 80W / 90W (80W / 140W : Tropical zones only)	

Front Axle

Type	Reverse Elliot type " I " beam
Capacity	kg 6,550

Tire & Wheel

Type	Single Front, Dual Rear
Tire	Front / Rear 12R 22.5 - 16PR
Wheel	Front / Rear 8.25T x 22.5-165

Steering

Type	2-Spoke, Ball-nut type, Tilt & Telescopic steering column	
Steering Wheel Diameter (mm)	500	
Tilting Angle	9 °	
Telescopic Stroke (mm)	50	
Overall Steering Gear Ratio	20.2 22.4	
Turning Angle	Inner	49 °
	Outer	35 °

Service Brake

Model	HD700		HD1000	
Engine	D6AC		D6CA3H	D6CA41
Actuation	Full Air, Dual circuit fixed S cam with spring loaded chambers			
Size (mm)	Front	Drum dia. x Lining width x Lining thickness : ϕ 410 x 156 x 19		
	Rear	Drum dia. x Lining width x Lining thickness : ϕ 410 x 220 x 19		
Compressed air reservoir	140 ℓ	145 ℓ	140 ℓ	
Total lining area	9,639cm ²	12,162cm ²	9,639cm ²	

Parking Brake

Actuation	Spring loaded type chamber on the rear wheel			
Size (mm)	Drum diameter x Lining width x Lining thickness : ϕ 410 x 220 x 19			
Total lining area	7,166cm ²			

Exhaust Brake

Type	Air operated, butterfly valve type			
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Jake brake

	-	Injection Cam operated type		
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Suspension

Type	Front		Semi-elliptic, laminated leaf springs with shackle link (Multi leaf spring)		Taper leaf Spring
		Rear		Semi-elliptic, laminated leaf springs with shackle link (Multi leaf spring)	
Spring Size (Length x Width x Thickness- Number of leaves)	Front		1,500 x 90 x 13t-7	1,500 x 90 x 13t-8	1,500 x 90 x 20t-3
	Rear	Main	1,480 x 90 x (20t-3 & 18t-7)	1,480 x 90 x (20t-5 & 18t-7)	1,480 x 90 x (20t-3 & 18t-7)
		Helper	-		
Shock absorber	Hydraulic double acting telescopic type on the front axle				

Cooling system

		Corrugated fin type & condense tank		
Radiator	Rows of tubes	3	4	
	Core size (mm)	730 x 810 x 49	730 x 810 x 66	
Cooling Fan	Auto clutched type viscos fan			

Air intake system

General	Snorkel type at the rear of cab (right or left side)			
Air cleaner type	Dry Paper type			
Air cleaner position	At the rear of cab (right or left side)			

Exhaust system

General	Conventional (horizontal) type muffler			
Tail pipe	Droptail type, blowing to chassis rearward			

Fuel tank

Capacity	350 liter (Steel), 380 liter (Aluminum)			
Material	Steel (STD), Aluminum (OPT)			

Frame

Type	“H” type frame with channel sectional side rail & cross members			
Main side rail (mm)	Depth x Flange x Thickness : 280 x 90 x 8t			

Electrical system

Electrical Equipments

Model	HD700	HD1000
Head lamps	Semi sealed beam , Projection beam : D6CB, D6CC	
Front combination lamps	Turn signal / Hazard-Amber, Position-White	
Fog lamps	Yellow, White : D6CB, D6CC	
Rear combination lamps	Turn Signal / Hazard-Amber, Tail / Stop- Red	
License plate lamp	White	
Back-up lamp	White	

Electrical system

Meter Cluster	Fixed type	
Meter	Speedometer with odometer / Air & Oil Pressure / Voltage / Tachometer / Fuel / Water temperature gauges	
Warning lamps & indicators	Turn signals & Hazard / Parking brake / Oil pressure with buzzer / Door opening / Charging / Main Beam / Cab Tilt Lock with buzzer / Seat Belt / Exhaust Brake / Preheating / Overheat , Coolant level with buzzer / Brake air with buzzer	
Horn	Dual, electric flat type	

Body

Cab

Type	“Manual-Hydraulic type cab tilting, (Electric-Hydraulic type : OPT), all steel welded construction with safety zone design”	
Mounting	Coil Spring type Full Floating cab (Air Spring type : OPT)	
Windshield	One piece type with laminated glass	
Windshield Wipers	Dual electric three speed (intermittent / low / fast) wipers & washer	
Driver’s Seat	Spring & Urethane foam cushioned / reclining, sliding & height adjuster at the front & rear, Vinyl material	
Passenger’s seat	Spring & Urethane foam cushioned, Vinyl material	

Annotations

- 1) Empty vehicle weight and curb weight shown are to 3.5% variation to allow for production tolerance.
- 2) Empty vehicle weight and curb weight include weight of oil, fuel, coolant and spare tire carrier & bracket, spare tire but exclude standard tool set.
- 3) The vehicle specifications may differ per country.
- 4) For further information please contact the commercial vehicle export teams of HMC.
- 5) In order that product improvement may be introduced at any time, specifications are subject to change without prior notice.